

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
24 February 2005 (24.02.2005)

PCT

(10) International Publication Number  
**WO 2005/016400 A1**

(51) International Patent Classification<sup>7</sup>: **A61L 31/16**,  
29/16, A61F 2/06, A61K 31/4045, C07D 209/16, A61P  
9/00, A61M 25/00

(21) International Application Number:  
PCT/EP2004/051755

(22) International Filing Date: 9 August 2004 (09.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
03447210.0 14 August 2003 (14.08.2003) EP

(71) Applicant (for all designated States except US): **BLUE MEDICAL DEVICES B.V.** [NL/NL]; Steenovenweg 19, NL-5708 HN Helmond (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DE SCHEERDER, Ivan Kamiel** [BE/BE]; Keeromstraat, 5A, B-3020 Herent (BE). **HORVERS, Ronald, Adrianus, Marla** [NL/NL]; Genoenuizerweg 2, NL-5663 PH Geldrop (NL).

(74) Agents: **VAN REET, Joseph et al.**; Gevers & Vander Haeghen, Holidaystraat 5, B-1831 Diegem (BE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ENDOLUMINAL PROSTHESIS COMPRISING A THERAPEUTIC AGENT

(57) Abstract: Delivery of Melatonin (N-acetyl-5-methoxytryptamine) locally, particularly from an intraluminal prosthesis such as a coronary stent, directly from the surface of the prosthesis or from pores, micropores, or perforations in the stent body, mixed or bound to a polymer coating applied on the endoluminal prosthesis, or mixed or bound to a glue applied to the endoluminal prosthesis, to inhibit inflammation induced by the injury caused by the implantation of the prosthesis and neointimal tissue proliferation and ingrowth of tissue, thereby facilitating the performance of the prosthesis.



WO 2005/016400 A1